WHAT IS CLAIMED IS:

	1		1.	An apparatus for processing a substrate, the apparatus comprising:				
	2		(a)	a first atmospheric deposition station;				
	3		(b)	a second atmospheric deposition station comprising an atmospheric				
	4	pressure vapor deposition chamber, wherein the first atmospheric deposition station and the						
	5	second atmospheric deposition station are coupled together; and						
	6		(c)	a substrate handling system adapted to transfer substrates between the				
	7	atmospheric deposition station and the second atmospheric deposition station.						
	1		2.	The apparatus of claim 1 wherein the first atmospheric deposition				
	2	station comprises a spin coating chamber.						
	1		3.	The apparatus of claim 1 wherein the first atmospheric deposition				
the first from the time that the first from the fir	2	station comprises an ultrasonic spray deposition device.						
	1		4.	The apparatus of claim 1 further comprising:				
#	2	a plasma system associated with the atmospheric pressure vapor deposition						
The Marie Time Trees Good Book	3	chamber.						
IJ	1		5.	The apparatus of claim 4 wherein the plasma system is a remote				
	2	plasma system that is adapted to form a plasma upstream of the atmospheric vapor deposition						
	3	chamber.						
	1		6.	The apparatus of claim 1 further comprising a curing station.				
	1		7.	The apparatus of claim 1 wherein the substrates are semiconductor				
	2	substrates.						
	1		8.	The apparatus of claim 1 wherein the first atmospheric deposition				
	2	station is adapted to deposit a layer to be formed into a porous dielectric layer on the						
	3	substrate, and second atmospheric deposition station is adapted to deposit a capping layer or						
	4	the porous dielectric layer.						
	1		9.	The apparatus of claim 1 wherein the atmospheric vapor deposition				
	2	chamber is an	n atmos	spheric chemical vapor deposition (APCVD) chamber.				

1	10.	The apparatus of claim 1 wherein the first atmospheric deposition				
2	2 station comprises a liquid dispenser.					
1	11.	An apparatus for processing semiconductor substrates, the apparatus				
2	comprising:					
3	(a)	an atmospheric chemical vapor deposition chamber;				
4	(b)	a plasma system associated with the atmospheric chemical vapor				
5	deposition chamber;					
6	(c)	a spin coating chamber coupled to the atmospheric deposition				
7	chamber;					
8	(d)	a curing station coupled to the atmospheric deposition chamber; and				
19	(e)	a substrate handling system adapted to transfer substrates between the				
8 9 0	atmospheric deposition chamber, the spin coating chamber, and the curing station.					
1 2	12.	The apparatus of claim 11 wherein the plasma system is a remote				
4 2	plasma system adapted to generated a plasma upstream of the atmospheric chemical vapor					
3	deposition chamber.					
3 1 2						
1	13.	The apparatus of claim 11 wherein the substrate handling system				
<u> </u>	comprises a plurali	ty of substrate handlers with arms.				
1	14.	The apparatus of claim 11 wherein the apparatus is a cluster tool.				
1	15.	The apparatus of claim 11 wherein the spin coating chamber is adapted				
2	to deposit a layer that is to be formed into a porous dielectric layer, and wherein the					
3	atmospheric chemical vapor deposition chamber is adapted to deposit a cap layer on the					
4	porous dielectric layer.					
1	16.	A method for processing a substrate using a substrate processing				
2	apparatus, the method comprising:					
3	(a)	depositing a first layer on a substrate at atmospheric pressure at a first				
4	atmospheric deposition station;					
5	(b)	transferring the substrate to an atmospheric vapor deposition chamber				
6	at a second atmosp	heric deposition station using a substrate transfer system; and				

7	'		(c)	depositing a second layer on the substrate at atmospheric pressure			
8	}	within the atmospheric vapor deposition chamber at atmospheric pressure.					
1			17.	The method of claim 16 wherein the substrate is a semiconductor			
2	2	substrate.					
1			18.	The method of claim 16 wherein the first atmospheric deposition			
2	2	station comprises a spin coating chamber.					
1			19.	The method of claim 16 further comprising:			
2	2	forming a porous dielectric layer from the deposited first layer, and wherein					
3	3	depositing the second layer on the substrate comprises depositing the second layer on the					
	ļ	porous dielectric layer.					
13 14 1	l		20.	The method of claim 19 wherein the porous layer and the cap layer			
D 2	2	comprise dielectric materials.					
	l		21.	The method of claim 16 further comprising:			
	2		curing the first layer at a curing station.				
in the true than the true of	ĺ		22.	The method of claim 16 wherein the atmospheric vapor deposition			
	2	chamber is an	atmosp	heric chemical vapor deposition (APCVD) chamber.			
1	1		23.	The method of claim 16 wherein depositing the first layer comprises			
2	2	depositing a liquid on the substrate.					